



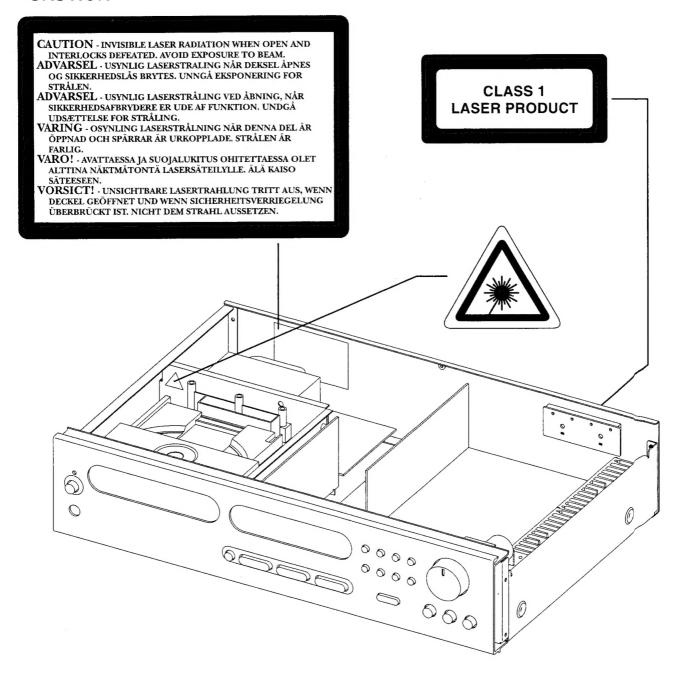
MANUAL ERVICE (1)

L 40

L LO
COMPACT
DISCRECEIVER

SAFETY INFORMATION

CAUTION





The lightning flash with arrowhead, within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangs is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.

OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

SERVICE SAFETY PRECAUTIONS

1. Replacing the fuses

CAUTION: FOR CONTINUED PROTECTION AGAINST THE RISK OF FIRE REPLACE ONLY WITH SAME TYPE OF FUSE.

Reference No	Part Number	Description
M410-M412*AH	5100-1020-1A	Fuse 1A 250V Time Lag (UL/CSA)
M410-M412*C	5100-1020-1B	Fuse 1A 250V Time Lag (SEMKO/VDE)
M404-M405*AH	5120-0037-0	Fuse 3.15A 250V Time Lag (UL/CSA)
M404-M405*C	5120-0065-0	Fuse 2A 250V Time Lag (SEMKO/VDE)

NOTE:

- <*AH > : USA, CANADIAN MODEL ONLY. <*C > : EUROPEAN MODEL ONLY.

CO . LOTTO! LATT MODEL ON

2. Safety check out

(Only U.S.A. model)

Before returning the product to the customer, make leakage current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit.

Parts marked with the symbol \triangle are critical with regard to the risk of fire and electric shock. Replace only with parts recommended by the manufacturer.

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SPECIFICATIONS

PREAMPLIFIER AND POWER AMPLIFIER SECTIONS

CONTINUOUS AVERAGE POW (Min. power per channel, 20Hz-2 with no more than rated distortio	20kHz, both n)		en,	20 W (13 dBW)
Rated distortion (THD 20Hz-20k	Hz)			0.07%
Clipping power (maximum contin	nuous powe	r per channel)		25 W
IHF dynamic headroom at 8 Ω				+3 dB
IHF dynamic power		8Ω:		40 W (16 dBW)
(maximum short term power per	channel)	4 Ω:		60 W (17.8 dBW)
	,	2 Ω:		80 W (19 dBW)
Slew rate				>20 V/usec
Damping factor (ref. 8 ohms 50H	lz)			>100
THD + SMPTE + IHF I.M. (from		rated output)		<0.07%
Input impedance	2001111 10 1	aroa oarpar,		80 kΩ + 220 pF
Input sensitivity (for rated output	into 8O)			135 ±10 mV
Signal/Noise ratio, A weighted	11110 022)	ref. 1W		80 dB
	J-\	Tone defeat	on	0± 0.5 dB
Frequency response (20Hz-20kh	12)	Tone defeat		
Observation (0)/ in 10\M	\	Tone deleat	OII	0± 0.8 dB
Channel separation (2V in, 10W		IN 500 \ 4 1.1	1-	60 dB
Headphone output in 0.05%, 6000	2 load, AUX	IN 500mV 1 K	ĦΖ	5 ± 1 V
Controls				
Bass		100Hz		±7 dB at 100 Hz
Treble		10kHz		±6 dB at 10 kHz
Hebic		101112		TO OD OU TO KILL
EM TUNED CECTION			**	* A LJ
FM TUNER SECTION			<u>*C</u>	<u>*AH</u>
Input level is expressed as the re	eading in op	en-circuit		
of 75-ohm source impedance sig				
Usable Sensitivity (98 MHz)	, 3		≤ 18 dBµ	≤ 20 dB µ
50 dB Quieting	Mono		≤ 20 dBµ	≤ 20 dB µ
oo ab aaronng	Stereo		≤ 38 dBµ	≤ 38 dBµ
60 dB Quieting	Mono		⊆ 30 dBμ	_ 28 dBμ
oo ab daleting	Stereo		≟ 48 dBμ	⊆ 26 dBμ ≤ 46 dBμ
Signal / Noise Ratio	Mono		≥ 65 dB	≥ 65 dB
	Stereo		≥ 60 dB	≥ 60 dB
(60 dBµ, IHF wtd)		Du/	0 ± 0.7 dB	≥ 00 dB 0 ± 0.7 dB
Frequency Response (30 Hz - 15		ο μ)		
Channel Separation (60 dBµ)	30 Hz		≥ 30 dB	≥ 30 dB
	1 kHz		≥ 32 dB	≥ 32 dB
	10 kHz		≥ 27 dB	≥ 28 dB
Alternate Channel Selectivity				
$(40 \text{ dB}\mu, \pm 400 \text{ kHz})$			≥ 65 dB	≥ 60 dB
Capture Ratio (40 dBµ)			≤ 7 dB	≤ 5 dB
AM Suppression				
(60 dBμ, 100% Mod.FM, 3	0% Mod AN	/ I)	≥ 51 dB	≥ 52 dB
Image Rejection (119.4 MHz)			≥ 78 dB	≥ 74 dB
I.F. Rejection (10.7 MHz)			≥ 82 dB	≥ 75 dB
Pilot Suppression (60 dBµ)			≥ 60 dB	≥ 60 dB
THD (60 dBu, 100%Mod. for AH	I. 40% Mod	. for C.1 kHz)		
те (ос одр., те с те	Mono	, ,	≤ 0.6%	≤ 0.8%
	L-R		≤ 0.8%	≤ 0.8%
	L+R		≤ 0.8%	≤ 0.8%
Auto-Search Sensitivity			16-30 dBµ	16-30 dB J ■
Center Tune Sensitivity			16-30 dBµ	16-30 dB J
Stereo Indicator Sensitivity	On		18-26 dBµ	18-26 dB J
State indicator conductivity	Off		17-25 dBµ	17-25 dB J
RDS decode Sensitivity	5 11		16-26 dBµ	11 20 GH
TIDO GEODGE OFFISITIVITY			10 20 abp	

CD PLAYER SECTION

Disc CapacityOne Disc, 120 or 80 mm	
Decoding Delta Sigma	
Digital Filter8 Times oversample	
Analog Filter	
Frequency Response +/- 0.5 dB, 5 Hz - 20 kHz	
De-Emphasis Error+/- 0.3 dB	
THD (at 0 dB, 1 kHz)	
Intermodulation Distortion < -100 dB, 19 + 20 kHz	
Dynamic Range96 dB	
Linearity+/- 0.5 dB, 0 dB to -80 dB	
Signal / Noise Ratio (A-Weighted)	
Channel Separation 1 kHz> 80 dB 10 kHz> 72 dB	
Wow and Flutter Unmeasurable (Quartz Crystal Ac	curacy)
Digital Error Correction	

PHYSICAL SPECIFICATIONS

Dimensions (Width x Height x Depth)

435 x 95 x 285 mm

Net weight

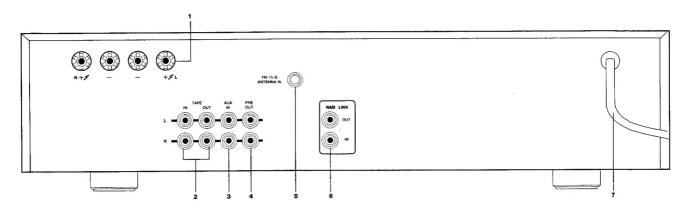
6.4 kg (14.08 lbs)

Shipping weight

8.0 kg (17.6 lbs)

REAR PANEL / FRONT PANEL VIEW

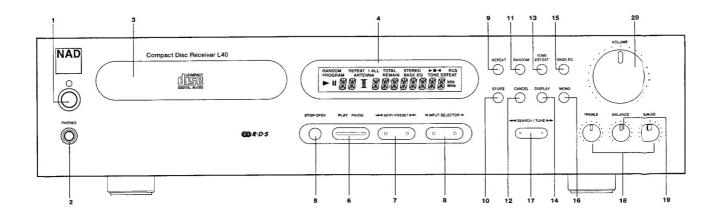
REAR PANEL



- 1. SPEAKER TERMINALS
- 2. TAPE IN/OUT
- 3. AUX INPUT
- 4. PRE OUT

- 5. FM ANTENNA TERMINAL
- 6. NAD LINK IN/OUT
- 7. AC POWER CORD

FRONT PANEL



- 1. POWER ON / OFF SWITCH
- 2. HEADPHONE
- 3. DISC DRAWER
- 4. LCD DISPLAY
- 5. STOP/OPEN
- 6. PLAY/PAUSE
- 7. SKIP/PRESET
- 8. INPUT SELECTOR
- 9. REPEAT
- 10. STORE

- 11. RANDOM
- 12. CANCEL
- 13. TONE DEFEAT
- 14. DISPLAY
- 15. BASS EQ
- **16. MONO**
- 17. SEARCH/TUNE
- 18. TREBLE/BASS CONTROLS
- 19. BALANCE CONTROL
- 20. VOLUME CONTROL

DISASSEMBLY INSTRUCTIONS

1. Remove machine screws M 4.0 x 6.0 (① to ④) from the side panels. Remove tapping screw 3.0 x 8.0 ⑤ from the back panel. Refer to **Figure No. 1**.

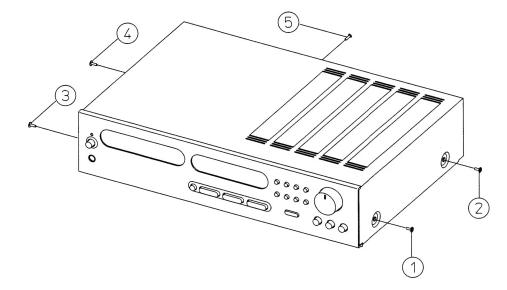


Figure No. 1.

2. Pull both sides of the TOP COVER slightly outwards ⑥ and tilt approx. 35° and then remove in the direction as indicated by the arrow ⑦. Refer to **Figure No. 2**.

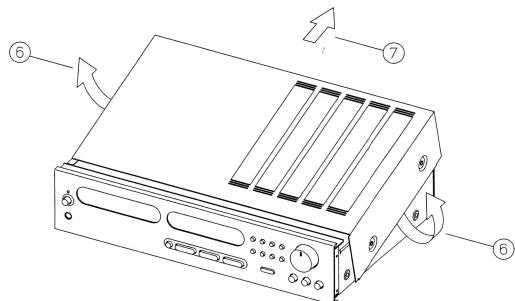
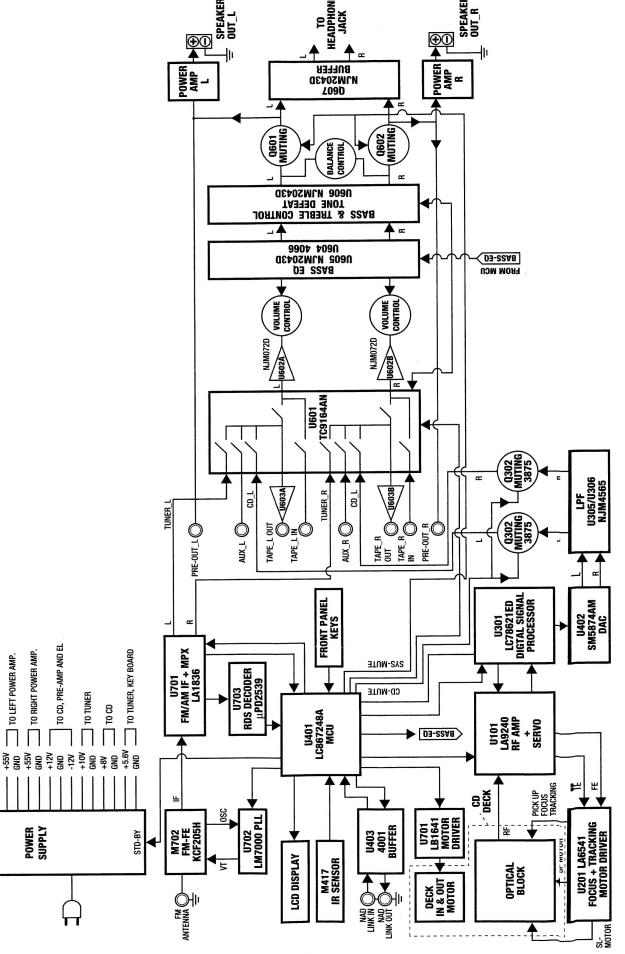
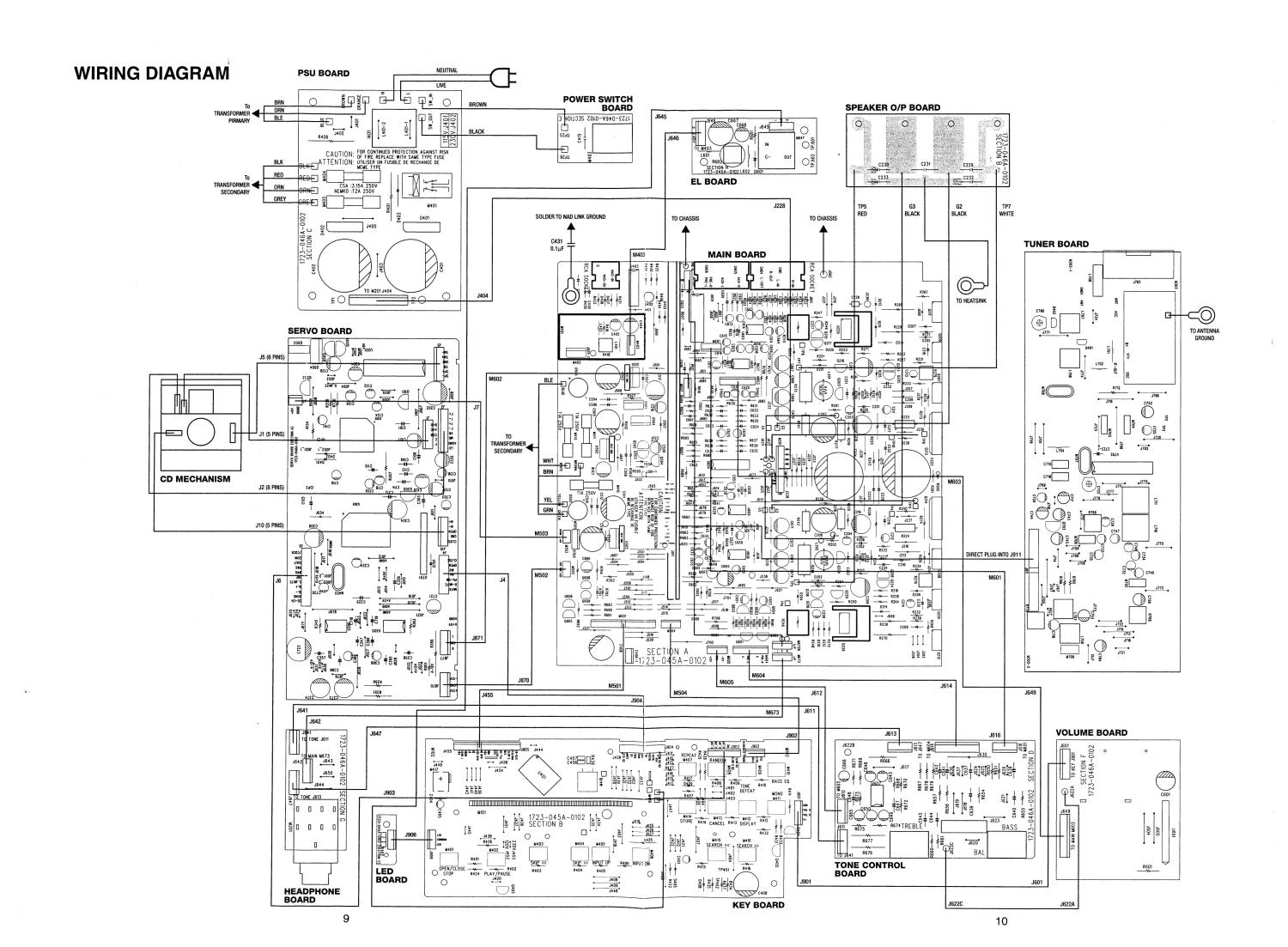


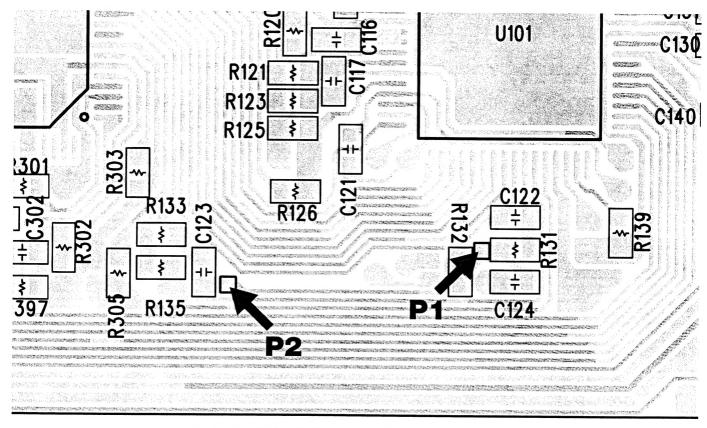
Figure No. 2.

BLOCK DIAGRAM





RF PATTERN TESTING



SERVO BOARD TESTING POINTS DIAGRAM

TESTING PROCEDURE

- (1) Load the test disc and set the unit into PLAY mode.
- (2) Connect the ground pin of scope to the solder pad of P1 and signal pin of scope to the solder pad of P2.

Scope setting:

Coupling

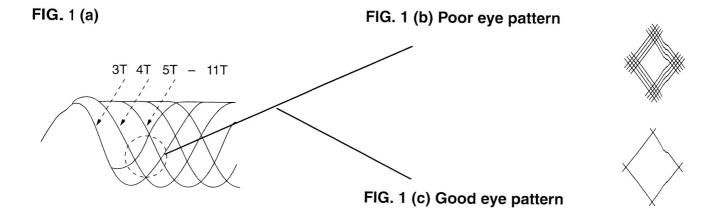
: AC.

Vertical sensitivity

: 0.2 V/div.

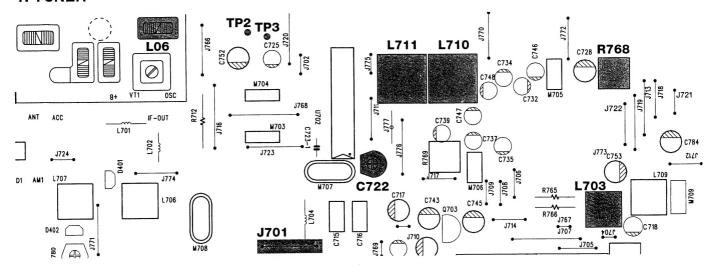
Horizontal time base $: 0.5 \mu S/div.$

(3) Observe the waveform is 2.4V p-p +/- 5% and the eye pattern is at its best shape (see FIG. 1).

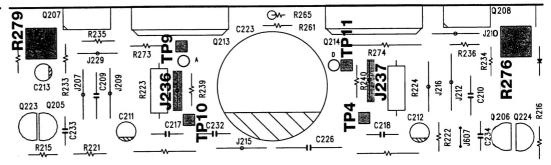


ADJUSTMENT POINTS DIAGRAM

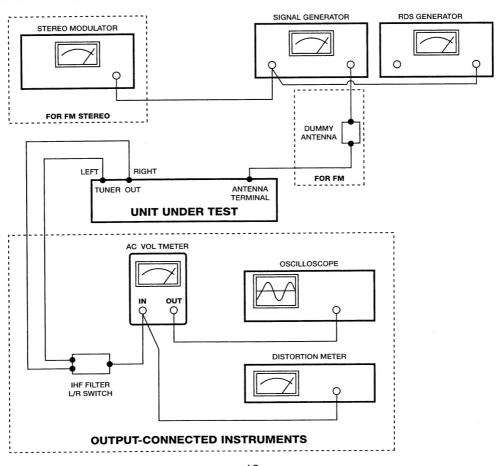
1. TUNER



2. IDLE CURRENT 62



INSTRUMENT SET UP



ALIGNMENT PROCEDURES

FM SECTION

AF MODULATION: 1 kHz, 40 kHz DEVIATION, MONO MODE

STORE FREQUENCY: 98 MHz, 87.5 MHz, 108 MHz RF LEVEL: 75-ohm IMPEDANCE, OPEN CIRCUIT

OSCILLATION TUNING VOLTAGE

Connect DVM between J701 & GND. Tune to 87.5 MHz. Adjust L06 (OSC Coil) to read 1.5 \pm 0.5V on DVM. Tune to 108 MHz. Adjust L06 (OSC Coil) to read 7.0 \pm 0.5V on DVM.

TUNER SENSITIVITY & SYNTHESIZER I.F. TRACKING

Connect DVM across TP2 & TP3.

Apply 98 MHz, 60 dBµ to antenna input.

Tune to 98 MHz.

Adjust L703 to read 0 ± 200 mV

Set RF level to 16 dBµ.

Adjust C722 for minimum distortion.

Set RF level to 36 dBµ.

Adjust C722 to read 0 ± 100 mV

Set RF level to 15 dBu.

Check distortion to read <3%.

Repeat until no further improvement.

STEREO SEPARATION PILOT SUPPRESSION

FM Stereo: 98MHz, 40kHz devi., 60dBµV, Pilot signal 19kHz, 7.5kHz devi.

Connect DVM across TP2 & TP3.

Turn R768 fully clockwise.

Turn off the modulating signal while leaving the pilot tone.

Adjust L710 and L711 for minimum outputs on Left and Right channel respectively.

Set modulated signal to Left only.

Adjust C722 for minimum output at Right channel.

Adjust L703 to read 0 ± 100 mV.

Repeat until no further improvement.

Set modulated signal to Right only.

Check for minimum output at Left channel. Readjust C722 and L703 if necessary.

SD LEVEL, SD BANDWIDTH & AUTO-SEARCH LEVEL

Set stereo modulator to L = R mode.

Apply 98 MHz, 22 dBµ to antenna input.

Tune to 98MHz, Stereo Mode.

Adjust R768 until Center Tune Icon and Stereo Icon just lights.

Deviate RF frequency about 98MHz from -20kHz to +20kHz at a step of 1kHz.

Check SD only lights within the given frequency range.

Set input level to 28 dBµ.

Check if auto-search works and check tuning accuracy. Readjust R768 if necessary.

RDS SECTION

RDS Generator - RDS Level: 5.6%, Output: 6.4Vp-p, Phase: 90 degree,

Drop Off: 100%, Radio Text.

Signal Generator - 98MHz, 40kHz devi., 26dBµ.

RDS DECODER

Check RDS icon lights and station name on the display.

Press display key once.

Check Radio Text scrolls across the display.

AMPLIFIER ADJUSTMENT

Idle Current

Remove solder link in between TP9 and TP10, or cut J236.

Connect DC millivoltmeter at TP9 and TP10 (i.e. across R239, 1-ohm resistor).

Adjust R279 for 25-35mV reading on voltmeter.

Remove solder link in between TP4 and TP11, or cut J237.

Connect DC millivoltmeter at TP4 and TP11 (i.e. across R240, 1-ohm resistor).

Adjust R276 for 25-35 mV reading on voltmeter.

Leave power on for at least 5 minutes, and check for idle current.

Replace solder link between TP9 and TP10 for left channel, and TP4 and TP11 for right channel, or reconnect J236 and J237.

IMPORTANT NOTES

INSTRUCTION FOR HANDLING OPTICAL SYSTEM BLOCK PICK-UP

Electrostatic breakdown of the laser diode in the optical system block may occur due to a potential difference caused by electrostatic charge accumulated on clothing, human body, etc. A ground must be provided as follows to prevent any electrostatic charge during unpacking or repair work.

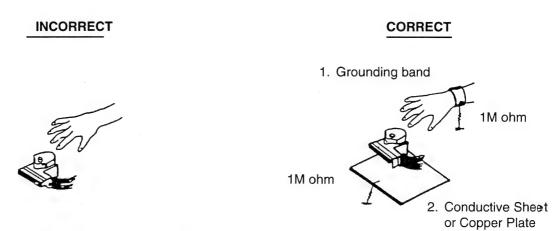
1. Ground for Human Body

Be sure to wear a ground band (1M ohm) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Work Bench

Be sure to place a conductive sheet (1M ohm) or copper plate with proper grounding on the work bench or other surface on which the pick-up is to be placed.

3. Because the static electricity charge on the clothing does not discharge through the body grounding band, do not let clothing to get in contact with the pick-up unit.



NOTE: Laser diodes are so susceptible to damage from static electricity that even if a static discharge does not ruin the diode, it can shorten its life or cause it to work improperly.

PRECAUTIONS FOR CHECKING BEAM EMISSION

The laser beam of this unit is focused on the reflecting surface of the objective lens in the optical system block. Therefore, keep your eyes at least 12 inches (30 cm) away from the objective lens when the laser diode is **ON**.

(Operation Check Method for Laser Diode and Focus Search Function.)

When the **POWER** switch is turned **ON** after the chucking plate is removed, observe the objective lens and confirm that the following operations are performed properly.

(The optical system block should be at the lead-in area position when it is checked at this time.)

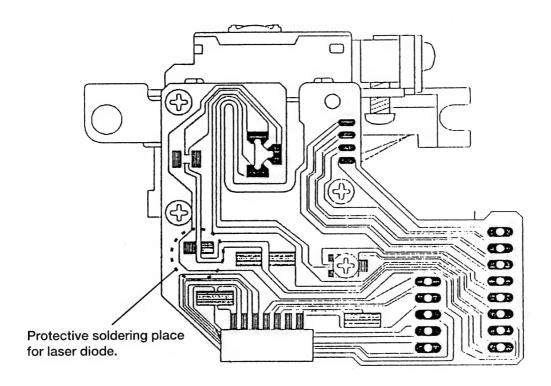
- (1) The laser should be at the innermost position after the chucking plate is removed.
- (2) The diffused light of the laser beam can be seen when the POWER switch is turned ON
- (3) Vertical (up and down) movement of the objective lens (2 or 3 times) will take place.

PRECAUTIONS WHEN CHANGING LASER PICK-UP

When removing the pick-up assembly, short circuit the PCB tracks on the optical block as shown in the drawing in order to protect the pick-up before removal.

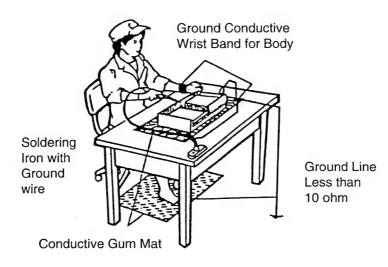
NOTE: Replacement pickup assemblies are supplied with the PCB pattern already protected.

DO NOT REMOVE THE SHORT CIRCUITS UNTIL YOU HAVE FINISHED FITTING THE PICK-UP.



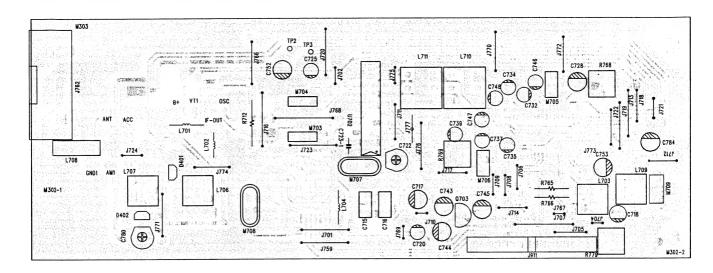
Caution:

Laser diodes are extremely susceptible to damage from static electricity. Even if a static discharge does not ruin the diode, it can shorten its life or cause it to work improperly. When replacing the pick-up, use a conductive mat, a grounded soldering iron, and so on, to protect the laser dode from static damage.

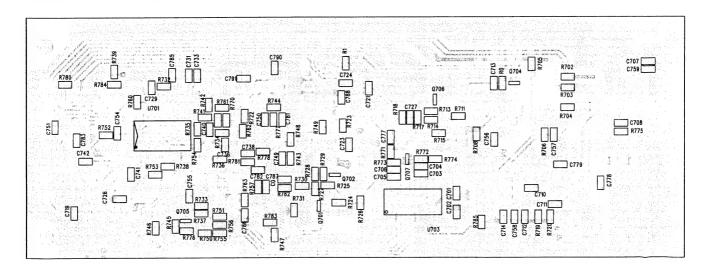


PCB LAYOUT

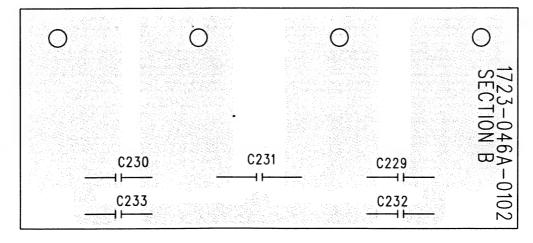
TUNER BOARD - COMPONENT SIDE



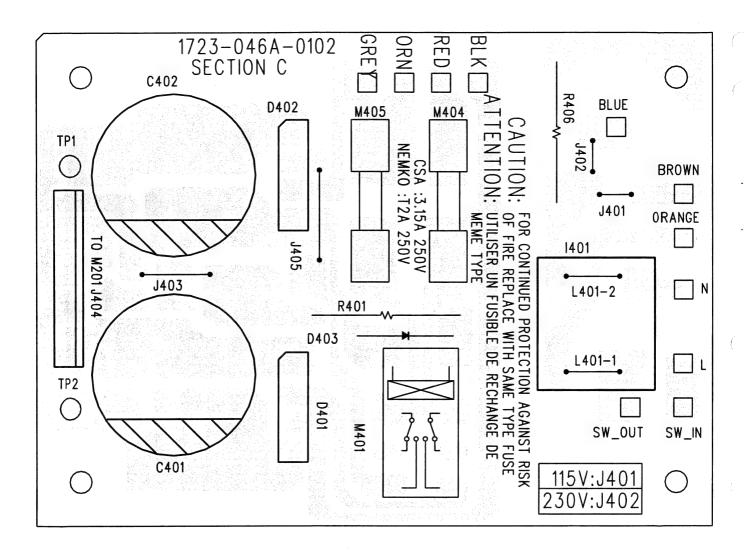
TUNER BOARD - COPPER SIDE



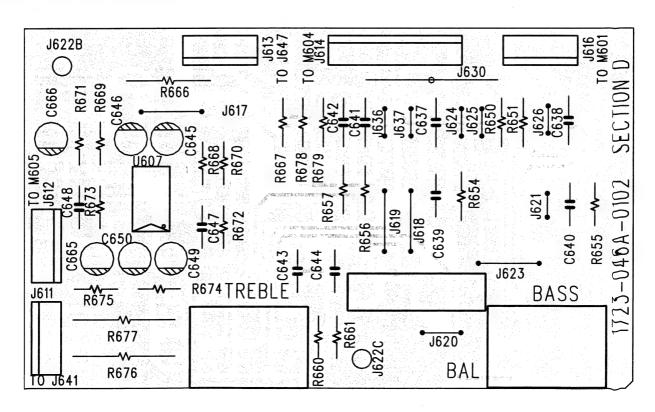
SPEAKER TERMINAL BOARD



PSU BOARD

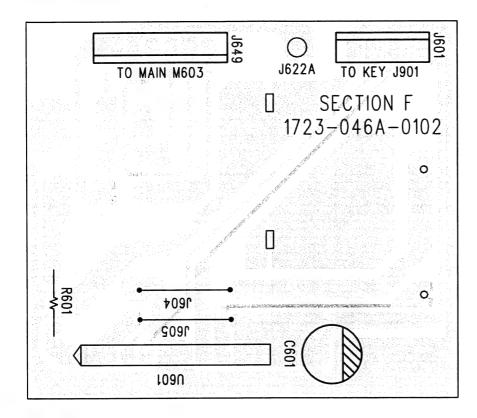


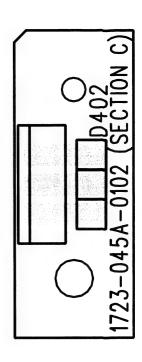
TONE CONTROL BOARD



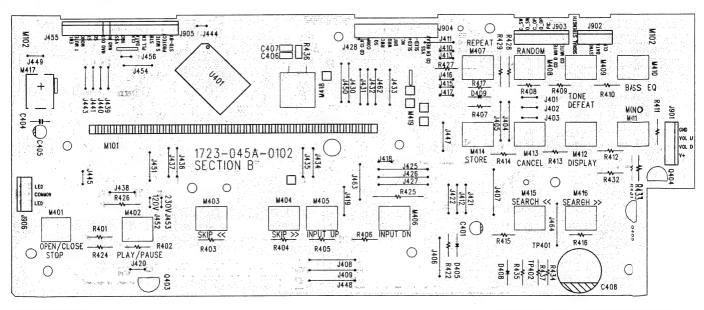
VOLUME BOARD

LED BOARD





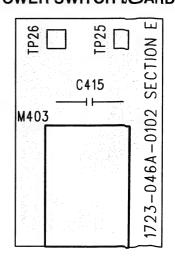
KEYBOARD



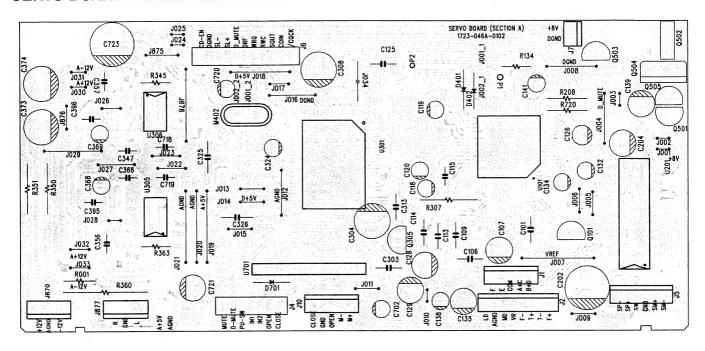
EL BOARD

J646 C667 - 9 + J645 | J645 | J647 |

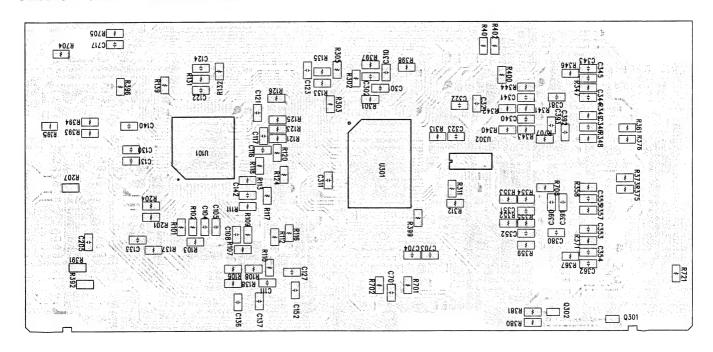
POWER SWITCH BOARD



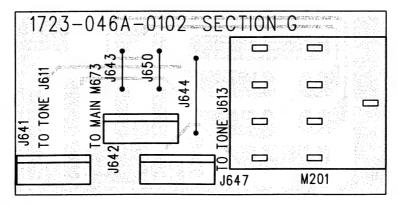
SERVO BOARD - COMPONENT SIDE



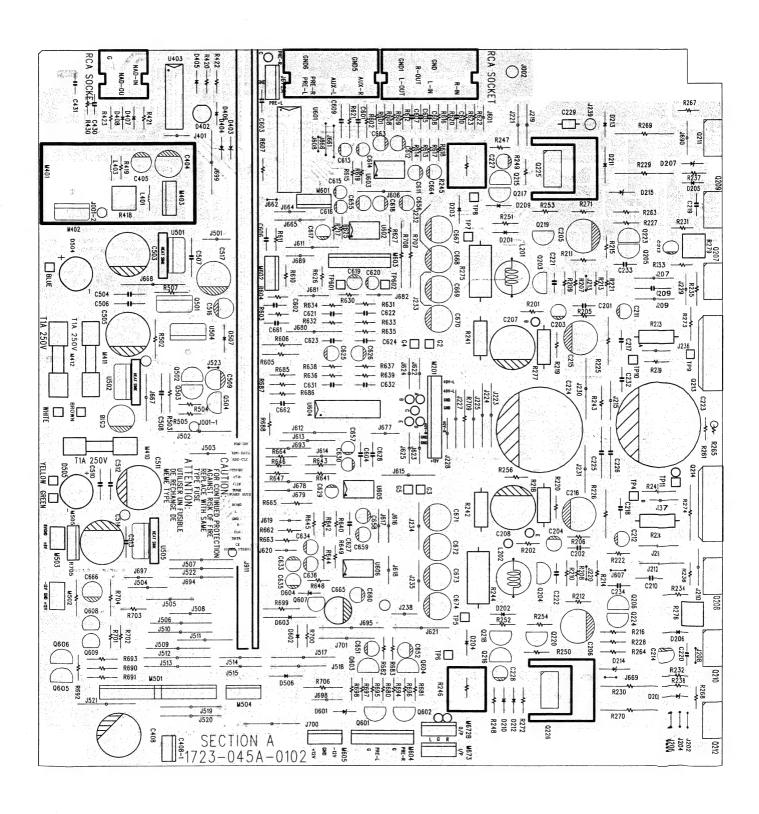
SERVO BOARD - COPPER SIDE

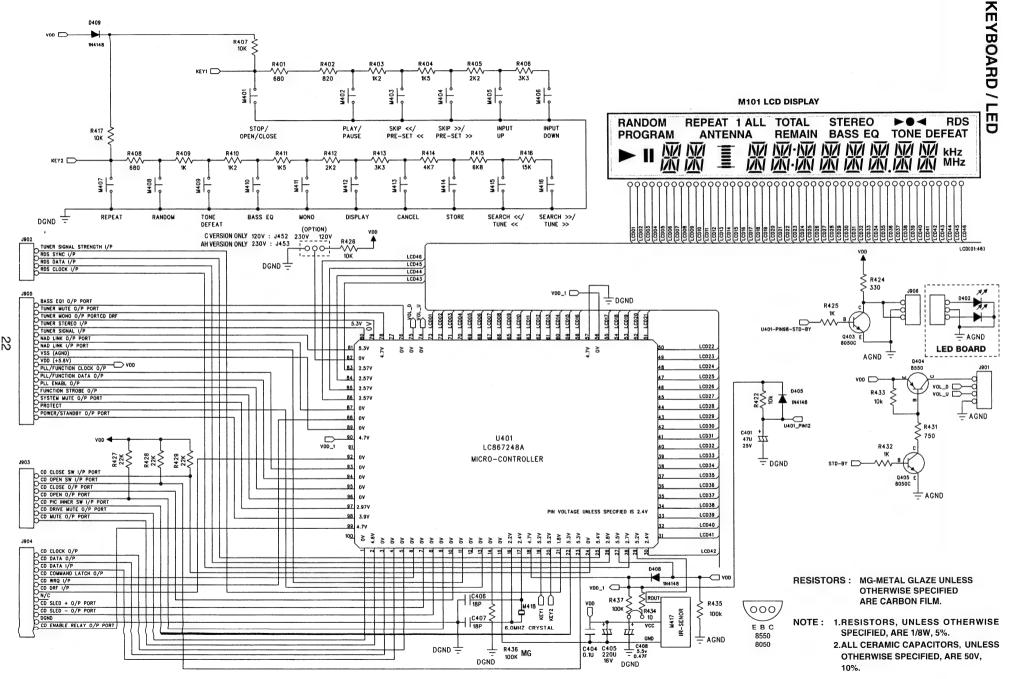


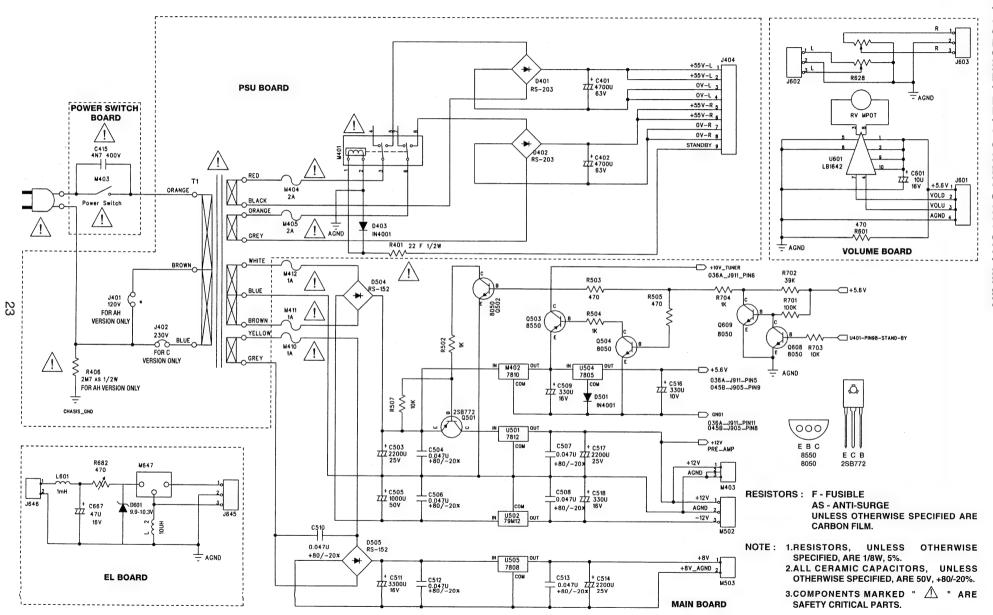
HEADPHONE BOARD

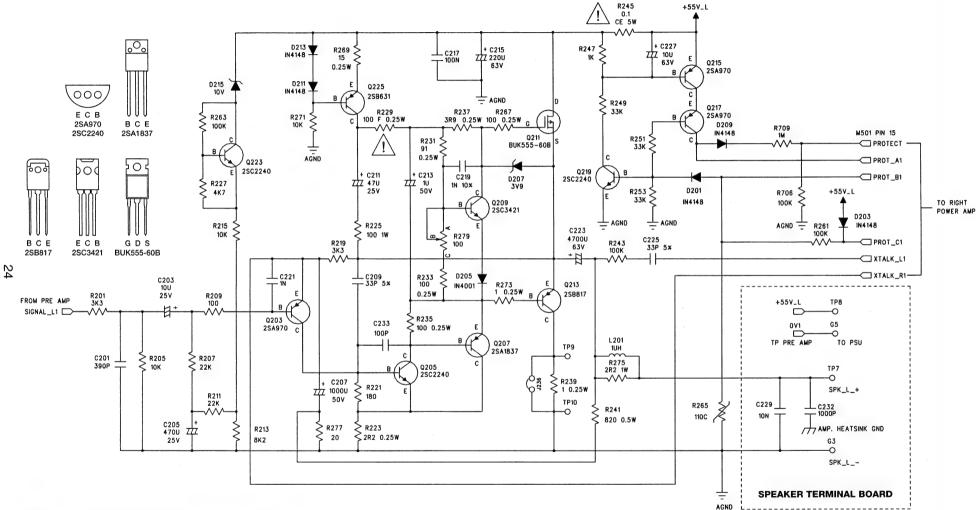


MAIN BOARD









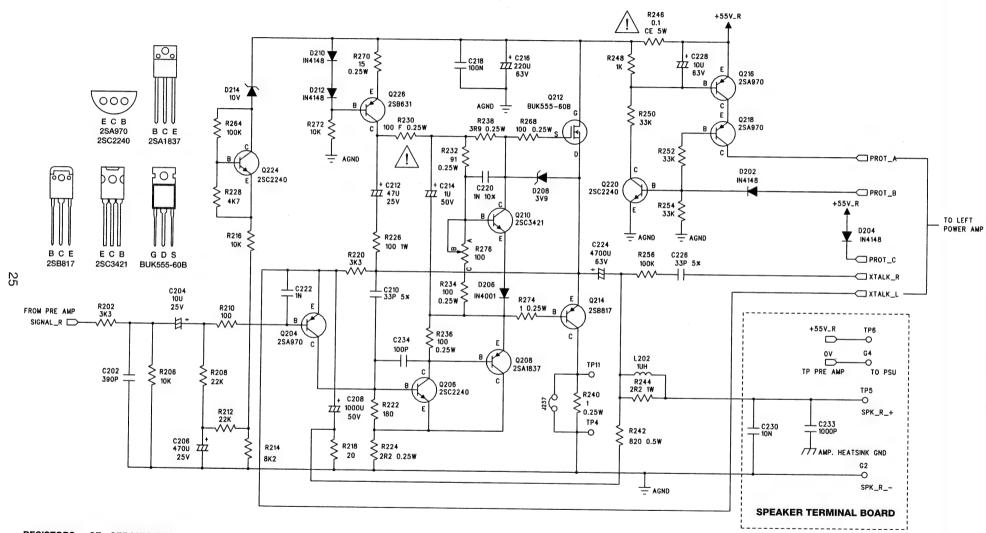
RESISTORS: CE - CERAMIC CASE

UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.

NOTE: 1.RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/8W, 5%.

2.ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

3.COMPONENTS MARKED " 1 ARE SAFETY CRITICAL PARTS.



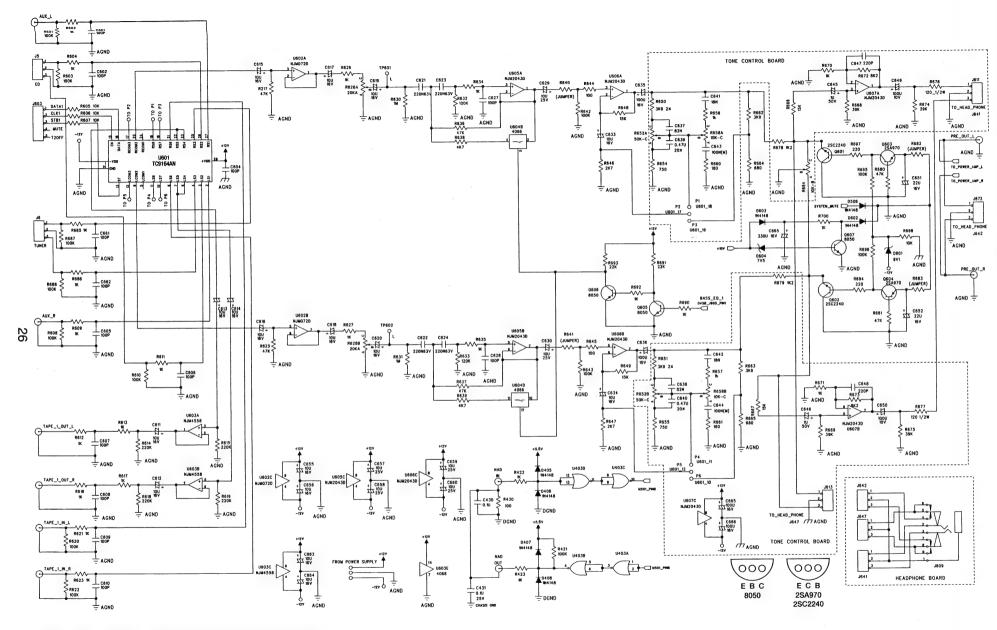
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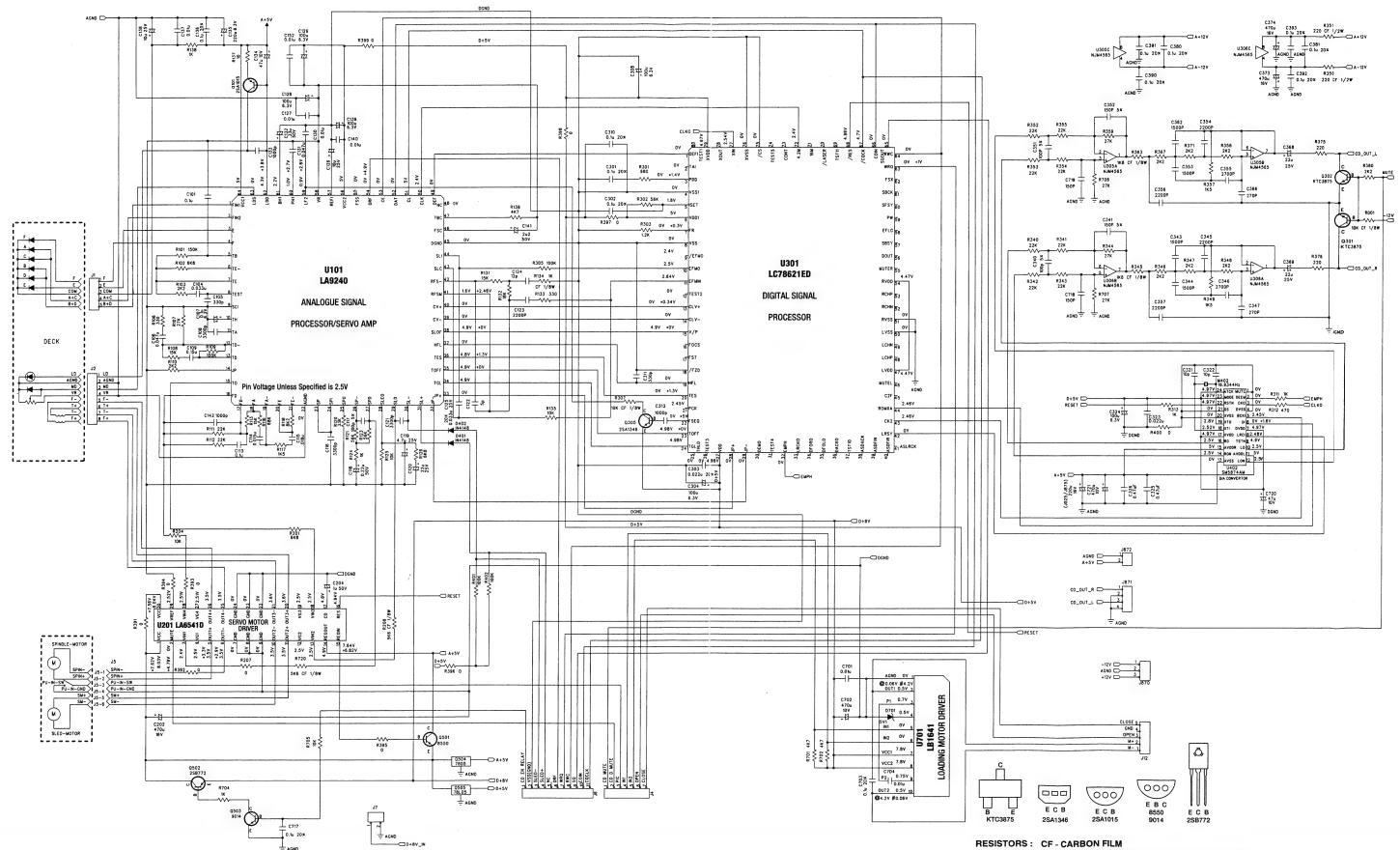
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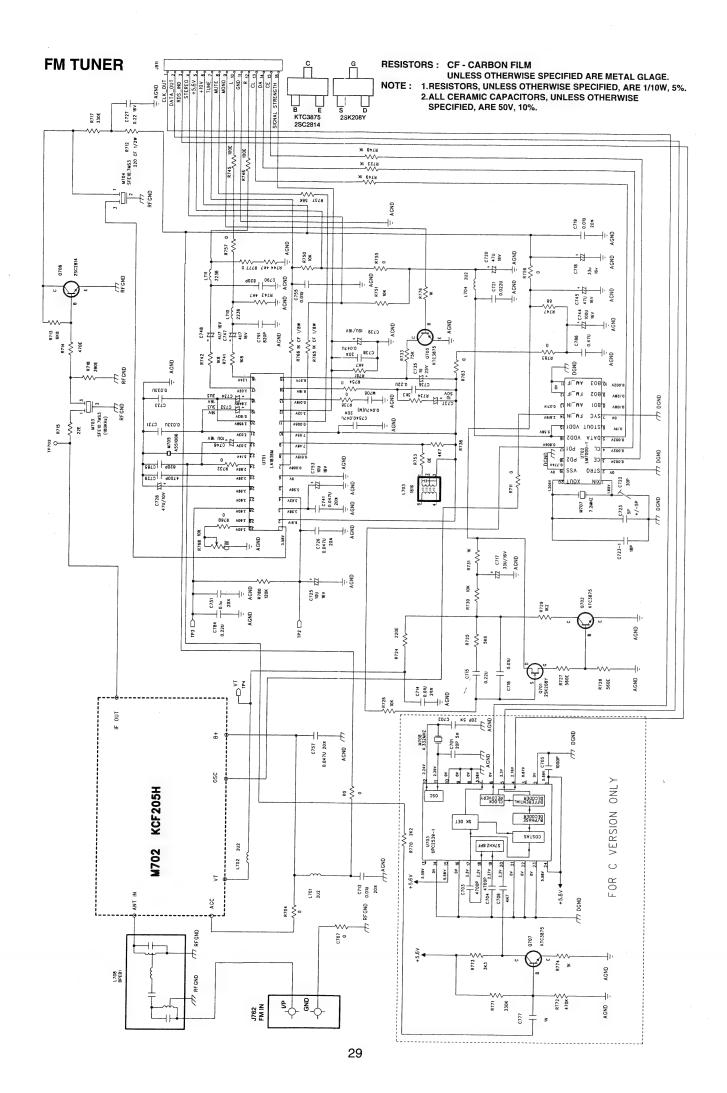
CD SERVO



RESISTORS: CF - CARBON FILM UNLESS OTHERWISE SPECIFIED ARE METAL GLAZE.

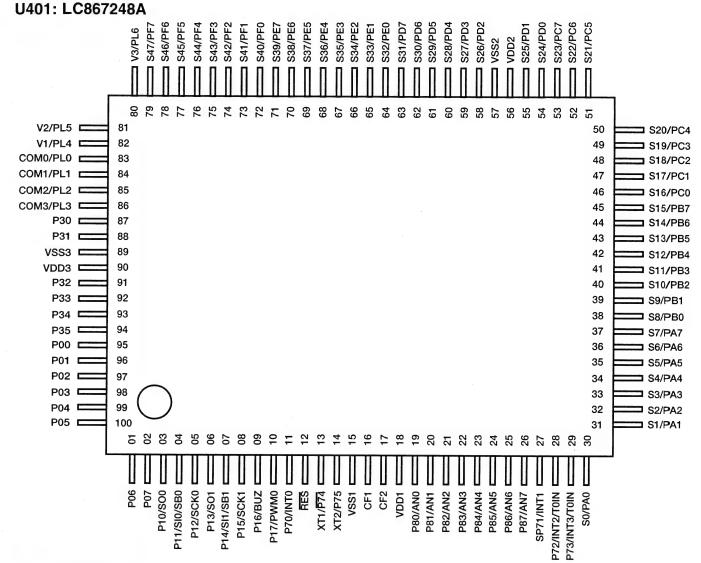
NOTE: 1.RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/10W, 5%.

- 2.ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%,
- 3. VOLTAGE SPECIFIED ON THE IC'S PIN WHICH DO NOT HAS MARKING IS IN STIP MODE, MARKED " * " IS PLAY MODE, " # " IS TRAY OPEN MODE AND " @" IS TRAY LOSE MODE.

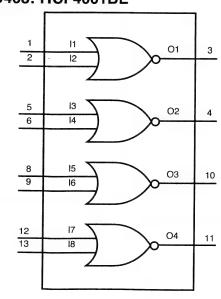


IC BLOCK DIAGRAM

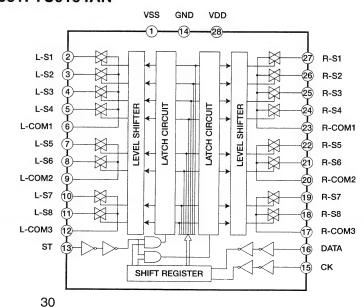
KEYBOARD



MAIN BOARD U403: HCF4001BE

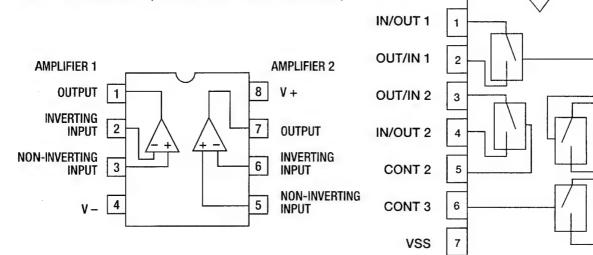


U601: TC9164AN



U602: NJM072D, U605-U606: NJM2043D, U305-U306: NJM4565D (SERVO BOARD),

U607: NJM2043D (TONE CONTROL BOARD)



U604: TC4066B

VDD

CONT 1

CONT 4

IN/OUT 4

OUT/IN 4

OUT/IN 3

IN/OUT 3

14

13

12

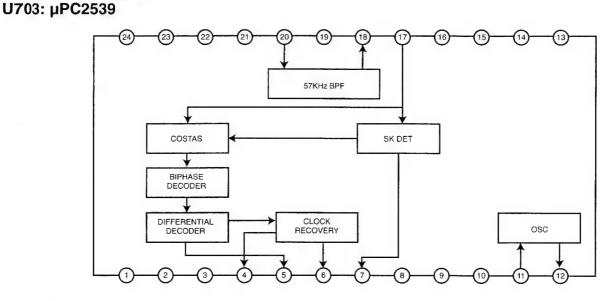
11

10

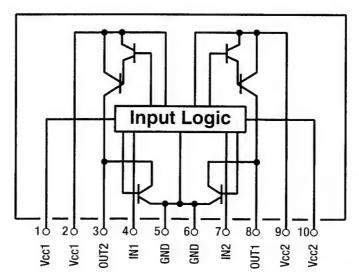
9

8

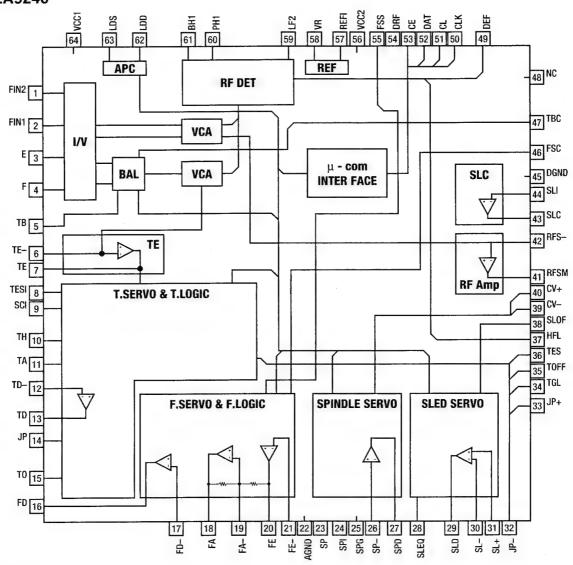
FM TUNER BOARD



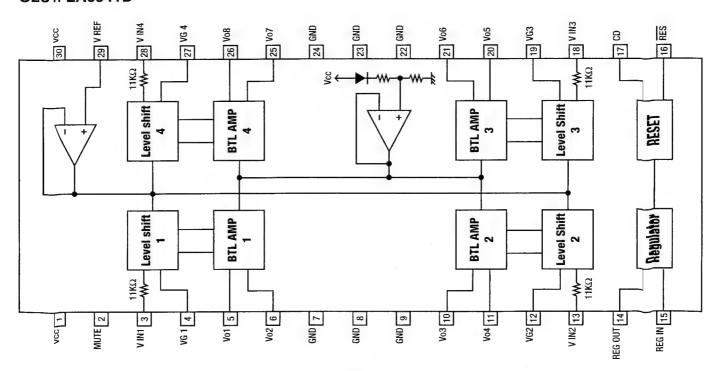
VOLUME BOARD U601: LB1642

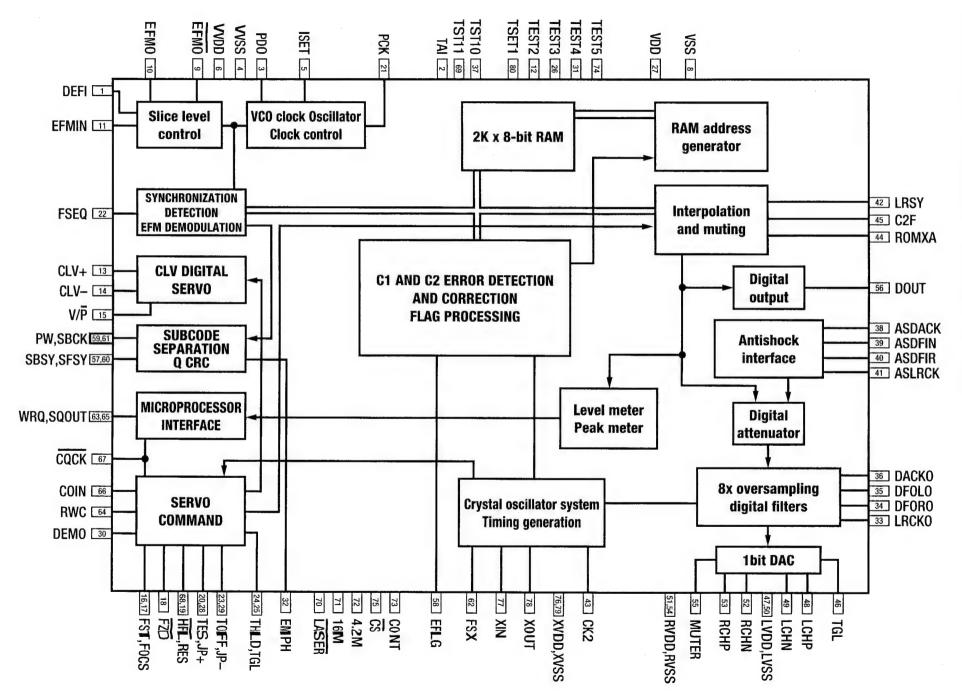


SERVO BOARD U101: LA9240

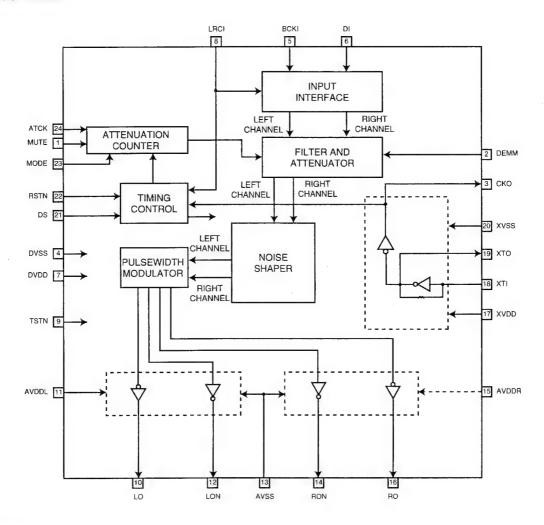


U201: LA6541D

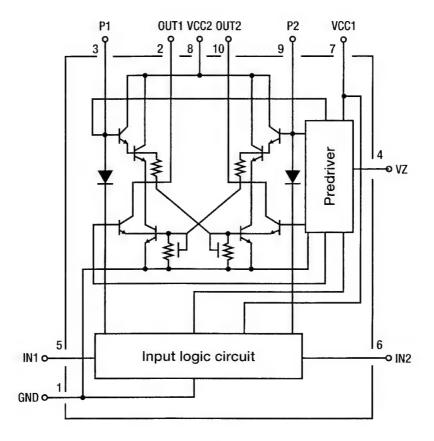




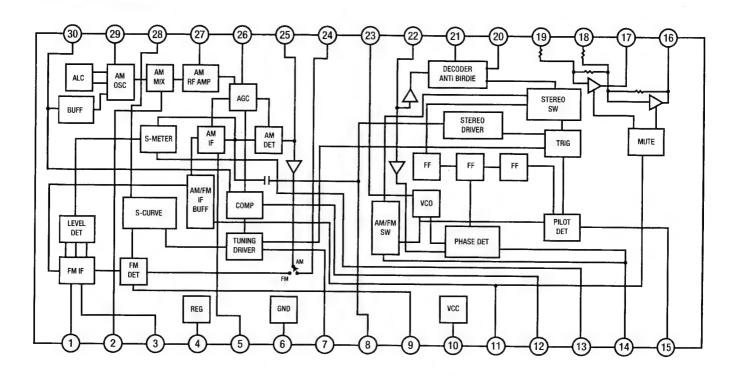
U302: SM5874AM



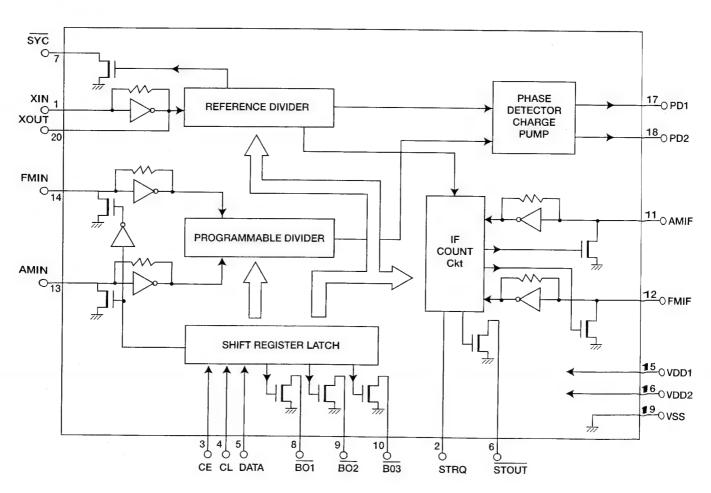
U701: LB1641

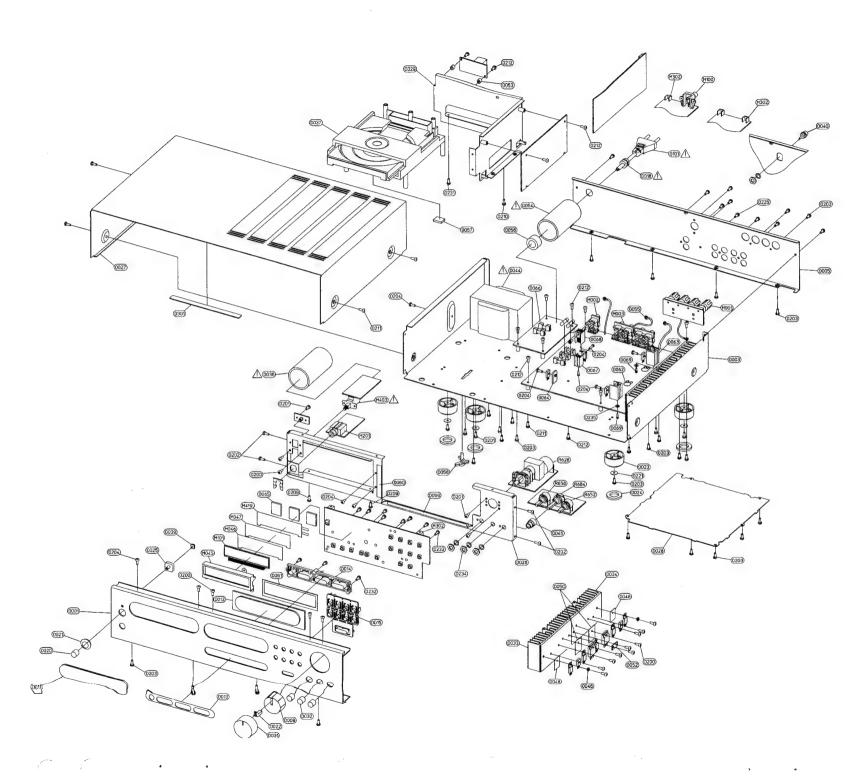


FM TUNER BOARD U701: LA1836M



U702: LM7000





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EXPLODED VIEW PARTS LIST

<u>Item</u>	Part No	<u>Description</u>	Qty
0001*AH	1402-6861-1	FASCIA	1
0001*C	1402-6862-1	FASCIA	1
0003	1402-3721-3	BOTTOM CHASSIS	1
0005*AH	1402-3834-1	REAR PANEL W/PAINT/SS	1
0005*C	1402-3835-2	REAR PANEL	1
0009	2437-7601-0	35MM KNOB CORE	1
0011	1464-6011-1	CD DOOR W/PAINT	Ιį
0012	3715-5812-0	LENS WINDOW W/SS	1
0013	4152-4371-1	LINK BUTTON SURROUND	li
0014	2442-1401-1	LINK BUTTON	11
0015	2442-1501-1	BUTTON KIT	
0018 🛆	4151-9461-0	STRAIN RELIEF BUSHING	
0020	2442-1000-0	POWER BUTTON	
0021	4152-4331-0	POWER BUTTON BEZEL	
0022	3715-5600-0	VOLUME KNOB LENS	
0023	4152-4631-0	RUBBER FOOT 14MM HIGH	4
0023	4152-4641-0	CUSHION FOOT	4 4
0025	4152-1701-0	LED BEZEL	4
0025	1402-7040-3	SUB-FASCIA	
0028	1402-7040-3	TOP COVER	
0027			
	1402-7060-1	BOTTOM COVER]
0029	1402-7050-3	CD BOARD BRACKET]
0031	1402-3465-0	VOLUME KNOB	1
0032	4152-4621-0	BASS/TREBLE/BALANCE KNOBS	3
0033	5400-1291-1	FRONT HEAT SINK	1
0034	5400-1301-1	REAR HEAT SINK	1
0036 △	1660-0640-0	SHRINKABLE TUBE ID=30MM	1
0037	4111-0901-1	CD DECK	[1
0039	3714-5706-0	LED LENS	1
0040*AH	2113-1172-0	F ANTENNA CONNECTOR	1
0044 △	1806-2203-0	X'FORMER 120/230V	1
0045	4132-8031-0	VR BUSHING	1
0046	4151-9931-0	INSULATION BUSHING	2
0048	3100-3551-0	SI INSULATOR 12X18	2
0050	3100-3211-0	SILICON SHEET 26X20MM	2
0052	4132-5357-0	RESISTOR FLAT BRACKET	1
0053	4152-3586-0	NYLON SPACER I.D. 3.2X5MM	2
0054 🛆	1660-0610-0	SHRINKABLE TUBE ID=25.4MM	1
0055	4131-7701-0	ANTENNA WASHER	1
0056	1808-0130-0	FERRITE CORE D19XT10	1
0057	4152-0241-0	PAD CORK 15X12X3MM	1 1
0058	1465-120B-1	TRANSIT LOCK	
0059	3100-5091-0	PC SHEET 162X11X0.25MM	
0060	3100-5101-0	PC SHEET 50X7X0.25MM	l i
0061	4152-5521-1	LCD GASKET	li l
0062	4132-3981-0	TRANSISTOR CLAMP SPRING	2
0063	5400-0851-0		
0063	5400-0851-0	HEATSINK 15MM-HIGH HOLE	2

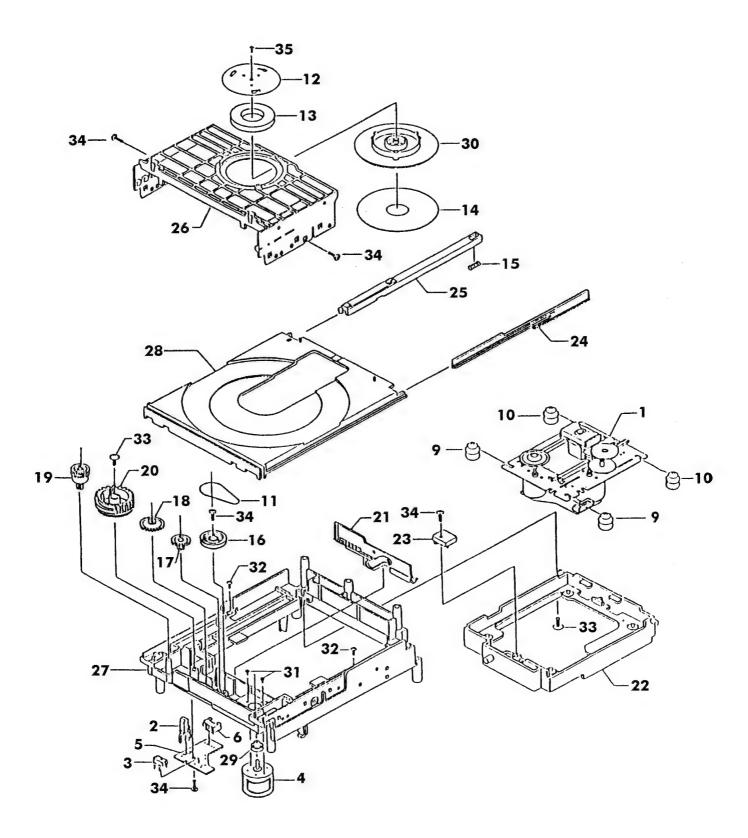
<u>Item</u>	Part No	Description	Qty
0064	5400-1051-0	HEATSINK PLATE 28X12X2T	1
0065	4152-4841-1	BLACK CUSHION	3
0066	4131-9131-0	FUSE HOLDER 6.5MM PITCH RECT	10
0067	5400-9130-0	HEAT SINK	1
0068	5400-0831-0	HEATSINK 20MM-HIGH HOLE	1
0069	2954-2608-0000	SCREW BT 2.6X8	2
0101*AH △	7009-3100-1	AC CORD 18AWGX2 SPT-2 UL/CSA	1
0101*C △	7009-3110-0	AC CORD SEMKO	1
0200	2904-3008-0000	MACHINE SCREW 3X8MM (YEL.ZN)	13
0201	2954-3006-3000	TAPPING 3X6MM B-TITE (BLK.ZN)	4
0202	2951-3008-3000	MACHINE SCREW 3X8 B-TITE (BLK.ZN)	4
0203	2954-3008-3000	TAPPING 3X8MM B-TITE (BLK.ZN)	35
0204	2954-3008-0000	TAPPING 3X8MM B-TITE (YEL.ZN)	14
0209	2954-3010-3000	TAPPING 3X10MM B-TITE (BLK.ZN)	2
0210	2954-3510-3000	TAPPING 3.5X10MM B-TITE (BLK.ZN)	1
0211	2900-4006-3010	M4X0.5PX6MM W/FLAT WASHER	8
0212	2904-3006-0000	MACHINE SCREW M3X6MM (YEL.ZN)	12
0221	2842-3367-0	METAL WASHER ID=3.3 OD=6.7	4
0225	2904-3008-3000	MACHINE SCREW M3X8 (BLK.ZN)	2
0231	2954-4010-3000	TAPPING 4X10MM B-TITE (BLK.ZN)	1
0232	2954-2606-3000	TAPPING 2.6X6MM B-TITE (BLK.ZN)	14
0234	2832-9751-0	NUT 9X0.75X2X11	1 1
0235	2601-2608-0601	FIBRE WASHER M2.6 0.8T OD=6	2
0301	4151-9411-0	CUSHION 130X10X1MM	1
M001*AH	2103-6004-0	SPK TERM W/O PLUG	1
M001*C	2103-6604-0	SPK TERM W PLUG	1
M002	2113-1196-0	2P RCA JACK YELLOW NI-HSP-242V	1 1
M003	2113-0104-1	4P RCA JACK R/W NI HSP-244V-01	2
M045	4132-7151-1	LCD/EL HOLDER	1 1
M046	3716-0702-0	POLYESTER SHEET LEE FILTER	1 1
M047	3716-0705-0	CLEAR PC SHEET W/SS	1
M100*C	2113-1191-0	DIN ANTENNA CONNECTOR	1 1
M101	2460-1330-0	LCD DISPLAY	1 1
M201	2113-1011-0	PHONE JACK 6312-03-070 W/CLIP	1
M302*AH	4132-6221-0	GROUNDING BRACKET	5
M302*C	4132-6221-0	GROUNDING BRACKET	4
M403 △	5200-3431-0	POWER SWITCH W/M3 THREAD	1
M419	2450-0976-0	EL LIGHT	1
R628	4750-3860-0	VR-VOL MOTOR POT 50KX2	1
R652	4750-3676-0	VR-BASS 2X50KC W/WASHER & NUT	1 1
R658	4750-3646-0	VR-TRE 2X10KC W/WASHER & NUT	1 1
R684	4750-4820-0	VR-BALANCE 10KW W/WASHER & NUT	li
11007	7700 7020-0	THE STATE OF THE PROPERTY OF T	

NOTE: – The components identified by \triangle mark are critical for risk of fire and electrical shock. Replace only with part number specified.

- <*AH > : USA, Canadian model only. <*C > : European model only.

MECHANISM EXPLODED VIEW

CD93F8



EXPLODED VIEW PARTS LIST OF MECHANISM CD93F8

<u>Item</u>	Part No	Description	Qty
1	4102-5002-0	CD94V5 MECHANISM	1
2	4102-5003-0	SWITCH LEAF	1
3	4102-5004-0	SWITCH PUSH 2-1	1
4	4102-5005-0	LOADING MOTOR	1
5	4102-5006-0	CON/SW PCB	1
6	4102-5007-0	CON JST 5P RT	1
9	4102-5008-0	Hardness 60° CUSHION RUBBER	2
10	4102-5009-0	Hardness 50° CUSHION RUBBER	2
11	4102-5010-0	BELT SQUARE	1
12	4102-5011-0	PLATE MAGNET	1
13	4102-5012-0	MAGNET DISK	1
14	4102-5013-0	SHEET	1
15	4102-5014-0	SPRING RAIL	1
16	4102-5015-0	PULLEY GEAR	1
17	4102-5016-0	GEAR IDLER A	1
18	4102-5017-0	GEAR IDLER B	1
19	4102-5018-0	GEAR TRAY	1
20	4102-5019-0	GEAR MEDIATION	1
21	4102-5020-0	SLIDER	1
22	4102-5021-0	CDM MOUNTING BASE	1
23	4102-5022-0	FIXITY	1
24	4102-5023-0	RAIL RIGHT	1
25	4102-5024-0	RAIL LEFT	1
26	4102-5025-0	SUPPORT MAGNET	1
27	4102-5026-0	BASE FRAME	1
28	4102-5027-0	CD TRAY	1
29	4102-5028-0	PULLEY MOTOR	1
30	4102-5029-0	HOLDER MAGNET	1
31	4102-5030-0	SCREW PAN+SW 1.7x3.5	2
32	4102-5031-0	SCREW S-TPG PAN+FLG 2x6	2
33	4102-5032-0	SCREW S-TPG BRZ+FLG 3x8	2
34	4102-5033-0	SCREW S-TPG BIN 2.6x7.8	5
35	4102-5034-0	SCREW SPECIAL 1.7x4.0	1

ELECTRICAL PARTS LIST

Reference No.	Part No.	<u>Description</u>
HEADPHONE BOARD PC BOARD	PCB-N0810C-HEAD	HEADPHONE ASSEMBLY
LED BOARD PC BOARD	PCB-N0810C-LED	LED ASSEMBLY
LED D402	3700-3513-Y	LED AMBER (L-424YDT)
EL BOARD PC BOARD	PCB-N0810C-EL	EL ASSEMBLY
CAPACITOR C667	157D-476M-5-IU	CE 16V 47μF 20%
COILS L601 L602	1801-102K-M 1801-100K-M	COIL 1mH 10% COIL 10µH 10%
INVERTER M647	1806-2217-0	INVERTER 5VDC TO 70-110VAC
VARIABLE RESISTOR R682	4756-4716-3-03	SVR 470E H3 MAT EVN-D8A A03
DIODE D601	4837-8A30-2	ZENER DIODE 1/2W 9.9-10.3Y
SPEAKER TERMINAL BOARD PC BOARD		
*AH *C	PCB-N0810C-SPK PCB-N0811C-SPK	SPEAKER TERMINAL ASSEMBLY SPEAKER TERMINAL ASSEMBLY
POWER SWITCH BOARD PC BOARD	DOD NOSTOC SW	DOWED OWITCH ACCEMENT
	PCB-N0810C-SW	POWER SWITCH ASSEMBLY
CAPACITOR C415	8910-0049-0	CAP400V 4700P DE7150F472MVA1KC
VOLUME BOARD PC BOARD	PCB-N0810C-VOL	VOLUME ASSEMBLY
CAPACITOR C601	157D-106M-5-II	CE 16V 10μF 20%

Ref. No.	Part No.	<u>Description</u>
RESISTOR		
R628	4750-4476-0	MOTORIZED POT 2X20KA
IC		
U601	3130-3410-0	IC LB1642 MOTOR DRIVER
PSU BOARD		
PC BOARD		
*AH *C	PCB-N0810C-PSU PCB-N0811C-PSU	PSU ASSEMBLY PSU ASSEMBLY
	1 68-100110-100	, oo nedember
CAPACITORS	0010 0057 0	OF 001/ 4700F 000/
C401-C402	8910-0057-0	CE 63V 4700µF 20%
DIODES		
D401-D402	4840-1120-0	BRIDGE DIODE RS203L
D403	4804-0010-2	DIODE 1N4001 AT
FUSES		
M404-M405*AH △	5120-0037-0	FUSE 250V 3.15A TIME LAG
		UL/CSA 5X20MM
M404-M405*C △	5120-0065-0	FUSE 250V 2A TIME LAG SEMKO/VDE 5X20MM
		SEIVINO/VDE SAZOIVIIVI
JUMPER		
J401*AH	635N-0001-0 635N-0001-0	WJ #23 D=0.6MM WJ #23 D=0.6MM
J402*C	63314-0001-0	VV3 #23 D=0.0IVIIVI
RELAY		
M401 \triangle	4500-0200-0	RELAY 2P2T MIB-12H
RESISTORS		
R401 \triangle	4715-220J-2-F	RFU 1/4W 22 OHM 1/4W 5%
R406*AH △	4717-275J-2-S	RAS 1/2W 2.7M OHM 1/2W 5%UL
11100 / 111		
KTVDOADD DOADD		
KEYBOARD BOARD PCBOARD		
*AH	PCB-N0810C-KEY	KEYBOARD ASSEMBLY
*C	PCB-N0811C-KEY	KEYBOARD ASSEMBLY
CAPACITORS		
C401	157E-476M-5-IQ	CE 25V 47µF 20%
C405	157D-227M-5-KW	CE 16V 220µF 20%
C408	4060-0550-0	SUPERCAP 0.47F FYDOH4742
DIODES		
D405,D408-D409	4804-1480-C	DIODE 1N4148 ATS
JUMPER		
J452*AH	635N-0001-0	WJ #23 D=0.6MM
J453*C	635N-0001-0	WJ #23 D=0.6MM
LCD DISPLAY		
M101	2460-1330-0	LCD DISPLAY

Reference No.	Part No.	Description
SWITCHES	5000 0044 0 04	TACT CHITCH AD
M401-M416	5200-3011-0-01	TACT SWITCH 4P
IR SENSOR		
M417	4816-043T-3	IR SENSOR MODULE
CRYSTAL		
M418	2300-1770-0	CRYSTAL 6.0MHZ +-20PPM
EL LIGHT	0.450,0070,0	EL LIQUE
M419	2450-0976-0	EL LIGHT
TOANGICTORG		
TRANSISTORS	4050 0501 5	TD M0050 UET 100 050
Q403,Q405	4858-050I-5	TR LM8050I HFE 100-250
Q404	4858-550I-5	TR LM8550I HFE 100-250
IC		
U401	3130-7640-0	IC LC867248A MICROCONTROLLER
0401	3130-7640-0	IC EC007240A MICHOCONTHOLLER
TONE CONTROL BOARD		
PC BOARD		
1 0 BOAND	PCB-N0810C-TONE	TONE CONTROL ASSEMBLY
	1 02 1100100 10112	TOTAL GOTT TOOL TOOL MIDE!
CAPACITORS		
C637-C638	153F-823J-5-SY	CM 50V 0.082µF 5%
C641-C642	153F-183J-5-KP	CM 50V 0.018µF 5%
C643-C644	153F-104J-5-SY	CM 50V 0.1µF 5%
C645-C646	157F-105M-5-IU	CE 50V 1µF 20%
C649-C650	157C-107M-5-IU	CE 10V 100µF 20%
C665-C666	157D-107M-5-IU	CE 16V 100µF 20%
RESISTORS		
R652	4750-3676-0	VR BASS 2X50KC
R658	4750-3646-0	VR TREBLE 2X10KC
R684	4750-4820-0	VR BALANCE 10KW
IC		
U607	3130-3680-0	IC NJM2043D DUAL OP AMP
CD SERVO BOARD		
PC BOARD	DOD NIGGEO OFFILE	OD OFFINO ASSEMBLY
	PCB-N0810C-SERV	CD SERVO ASSEMBLY
O L D L OUT C D C		
CAPACITORS	150E 1041 E DT	OM FOV 0.4 F 59/
C101	153F-104J-5-PT	CM 50V 0.1µF 5%
C106	153F-473K-5-NO	CM 50V 0.047µF 10%
C107	157F-104M-5-IU 153F-154K-5-KM	CE 50V 0.1µF 20% CM 50V 0.15µF 10%
C109 C113	153F-154K-5-KW 153F-104J-5-PT	CM 50V 0.15µF 10% CM 50V 0.1µF 5%
C113	153F-153K-5-KP	CM 50V 0.1µF 5% CM 50V 0.015µF 10%
C114	153F-183J-5-KP	CM 50V 0.019µF 10% CM 50V 0.018µF 5%
C118	157F-224M-5-IU	CE 50V 0.22µF 20%
C119	157E-475M-5-GM	CE 25V 4.7µF 20%
C120	157E-226K-5-IU	CE 25V 4.7µ1 20% CE 25V 22µF 10%
C122	15CH-050C-J-BDL	CC 50V 5pF +/-0.25pF NPO
C124	15CG-120J-J-BD	CC 50V 12pF 5% NPO
C126	157E-106M-5-IU	CE 25V 10µF 20%
J120		OL 201 10pt 2070

Reference No.	Part No.	<u>Description</u>
C128-C129	157B-107M-5-KM	CE 6.3V 100µF 20%
C132	157F-334K-5-luF	CE 50V 0.33µF 10%
C134	157C-476M-5-IU	CE 10V 47µF 20%
C135		
	157B-227M-5-KW	CE 6.3V 220µF 20%
C138	157D-106M-5-GM	CE 16V 10µF 20%
C139	157B-107M-5-KM	CE 6.3V 100µF 20%
C141	157F-225M-5-GM	CE 50V 2.2µF 20%
C202	157C-477M-5-OW	CE 10V 470µF 20%
C204	157F-105M-5-GM	CE 50V 1µF 20%
C304,C308		
	157B-107M-5-KM	CE 6.3V 100µF 20%
C321	15CG-100J-J-BD	CC 50V 10pF 5% NPO
C324	157B-107M-5-KM	CE 6.3V 100µF 20%
C325-C326	153I-474K-5-RPM	CM 63V 0.47µF 10%
C368-C369	157E-226K-5-IU	CE 25V 22µF 10%
C373-C374	157D-477M-5-OVK	CE 16V 470µF 20%
C702		
	157C-477M-5-OU	CE 10V 470µF 20%
C720	157C-476M-5-II	CE 10V 47µF 20%
C721	157C-477M-5-OW	CE 10V 470µF 20%
J025/J875	157D-227M-5-KW	CE 16V 220µF 20%
DIODES		
D401-D402	4804-1480-C	DIODE 10141 40 ATO
		DIODE 1N4148 ATS
D701	4837-5V11-2	DZ 5.1V 1/2W AT
CRYSTAL		
M402	2300-0110-0	CRYSTAL 16.9344 MHZ
TRANSISTORS		
	4054 04574 5	TD 004.44.5
Q101	4851-015Y-5	TR 2SA1015-Y HFE 120-240
Q301-Q302	4853-875Y-3	TR KTC3875Y
Q305	485A-1346-5	TR 2SA1346 HFE 50-100
Q501	4858-550I-5	TR LM8550I HFE 100-250
Q502	485B-772P-5	TR 2SB772P PNP POWER TR
Q503	4859-014C-5	TR 9014C HFE 200-600
4000	4000 0140-0	111 90 140 111 E 200-000
ICs		
Q504	3130-2020-2	IC 7805 5V REGULATOR
Q505	3130-0640-0	IC NJM78L05A 5V REGULATOR
U101	3130-6710-0	IC LA9240 ASP FOR CD QIP64E
U201	3130-6720-0	IC LA6541D 4-CHANNEL BTL DRIVER
3201	3130-0720-0	
11201	0100 0700 0	DIP30
U301	3130-6700-0	IC LC78621ED DSP FOR CD QI P80E
U302	3130-4390-0	IC SM5874AM-ET D/A CONVERTER
U305-U306	3130-5830-0	IC NJM4565D OP AMP
U701	3130-6560-0	IC LB1641 MOTOR DRIVER
FMTUNER BOARD		
PC BOARD		
*AH	PCB-N0810C-TUN	FM TUNER ASSEMBLY
*C	PCB-N0811C-TUN	FM TUNER ASSEMBLY
CAPACITORS		
C701*C-C702*C	150F-200J-J-BD	CC 50V 20pF 5%
C703*C-C704*C,C706 *C	150F-472K-J-BD	CC 50V 4700pF 10%
C705*C	150F-102K-J-BD	CC 50V 4700pF 10%
C715		
	153F-224J-5-MIB	CM 50V 0.22µF 5%
C716	153F-103J-5-IM	CM 50V 0.01µF 5%

Reference No.	Part No.	<u>Description</u>
C717-C718	157D-336M-5-IU	CE 16V 33µF 20%
C720	157D-476M-5-IMK	CE 16V 47µF 20%
C722	1551-0210-0	TRIMCAP 5.2-30P TZ03R300FR
C723-1	15UJ-180J-5-GG	CC 50V 18pF 5% NPO
C725	157D-106M-5-GM	CE 16V 10µF 20%
C728	157D-476M-5-IMK	CE 16V 47µF 20%
C732,C734	157D-335M-5-II	CE 16V 47µ 20%
C735	157E-105M-5-IU	l ·
C737		CE 25V 1µF 20%
	157F-105M-5-GM	CE 50V 1µF 20%
C739	157D-106M-5-GM	CE 16V 10µF 20%
C744	157D-107M-5-IU	CE 16V 100µF 20%
C745	157D-476M-5-IMK	CE 16V 47µF 20%
C746	157D-106M-5-GM	CE 16V 10µF 20%
C747-C748	157D-475M-5-EI	CE 16V 4.7µF 20%
C753	157D-106M-5-GM	CE 16V 10µF 20%
C777*C	150F-102K-J-BD	CC 50V 1000pF 10%
C784	153F-224J-5-MIB	CM 50V 0.22µF 5%
	100. 12.10 0 14115	З
COILS	1001 0D01111	0011 0 0 11 0007
L701-L702,L704	1801-2R2M-M	COIL 2.2µH 20%
L703	5600-1816-T	TUNER IFT 10.7MHZ
L708	2701-0609-4	BAND PASS FILTER 64-108MHZ
L710-L711	5600-2236-S	19KHZ FILTER COIL
TUNER MODULE		
M702	1300-0636-0	FM F/E TUNER KEC KCF205H
DECOMATORS & ORVETALS		
RESONATORS & CRYSTALS		
M703-M704	2701-0116-1	CF 10.7+-30 SFE10.7MS3-A
M705	2703-0040-0	CR 456F15
M706	153F-473K-5-NO	CM 50V 0.047µF 10%
M707	2300-0440-0	CRYSTAL 7.2MHZ 20PPM
M708*C	2300-1220-0	CRYSTAL 4.332MHZ
TRANSISTORS		
Q701	490K-208Y-3	FET 29K209/V\ IDS 1 2 2 0
Q702,Q705,Q707*C		FET 2SK208(Y) IDS 1.2-3.0
	4853-875Y-3	TR KTC3875Y
Q706	4852-814F-3	TR 2SC2814 HFE 60-180
RESISTORS		
R768	4756-1036-3-03	SVR 10K H3 6.7X6.3
R770*C	4720-102J-J	RMG 1K OHM 1/10W 5%
R771*C	4720-334J-J	RMG 330K OHM 1/10W 5%
R772*C	4720-474J-J	RMG 470K OHM 1/10W 5%
R773*C	4720-332J-J	RMG 3.3K OHM 1/10W 5%
R774*C	4720-3323-3 4720-102J-J	RMG 1K OHM 1/10W 5%
11/14 0	4120-1020-0	NING IN UNIVI 1/1000 5%
ICS		
U701	3130-6420-0	IC LA1836M FM/AM IF+MPX
U702	3130-3430-0	IC LM7000 DTS
U703*C	3130-5570-0	IC UPC2539 RDS DEMODULATOR
MAIN BOARD		
PC BOARD		
PC BOARD *AH	PCB-N0810C-MAIN	MAIN BOARD ASSEMBLY

157E-106M-5-IU	CE 25V 10µF 20%
	CE 25V 470µF +80/-20%
	CE 50V 1000µF 20%
	CE 25V 47µF 20%
	CE 50V 1µF 20%
	CE 63V 220µF 20%
	CM 63V 0.1µF 5%
	CM 63V 0.001µF 5%
8910-0057-0	CE 63V 4700µF 20%
157I-106M-5-IU	CE 63V 10µF 20%
157E-228M-5-X9	CE 25V 2200µF 20%
157F-108M-5-W9	CE 50V 1000µF 20%
157D-337M-5-OVK	CE 16V 330µF 20%
157D-338M-5-W@	CE 16V 3300µF 20%
	CE 25V 2200µF 20%
	CE 10V 330µF 20%
	CE 25V 2200µF 20%
	CE 16V 330µF 20%
	CE 16V 10µF 20%
	CM 63V 0.22µF 5%
	CE 25V 10µF 20%
	CE 16V 10µF 20%
	CE 16V 100µF 20%
	CE 25V 22µF 10%
157D-106M-5-IU	CE 16V 10µF 20%
157E-106M-5-IU	CE 25V 10µF 20%
157D-337M-5-OVK	CE 16V 330µF 20%
4804-1480-C	DIODE 1N4148 ATS
	DIODE 1N4001 AT
	DZ 1/2W 3.8-4.0V AT
	DZ 1/2W 9.9-10.3V AT
	DIODE 1N4148 ATS
	BRIDGE RECTIFIER RB152 100V 1.5A
1	DZ 1/2W 9.1-9.5V AT
	DIODE 1N4148 ATS
	DZ 1/2W 7.5V ROHM AT
4804-0010-2	DIODE 1N4001 AT
5100-1020-1A	FUSE 125V 1A TIME LAG UL/CSA
	5X20MM
5100-1020-1B	FUSE 125V 1A TIME LAG SEMKO/VDE
	5X20MM
1804-0540-0	SPRING COIL 1mH
4860-0650-5	TR 2SA970GR
4852-40GR-5	TR 2SC2240GR
4860-1050-5	TR 2SA1837 HFE 100-320
	TR 2SC3421
and the second s	MOS FET BUK555-60B
	TR 2SB817 (E) HFE 100-200
	TR 2SB017 (E) HFE 100-200 TR 2SA970GR
	157E-447Z-5-S5 157F-108M-5-W9 157E-476M-5-IU 157F-105M-5-IU 157I-227M-5-S9 153I-104J-9-NL 153I-102J-9-NL 8910-0057-0 157I-106M-5-IU 157E-228M-5-X9 157F-108M-5-W9 157D-337M-5-OVK 157D-337M-5-OVK 157D-337M-5-OVK 157D-106M-5-IU 153I-224J-9-NL 157E-106M-5-IU 157D-106M-5-IU 157D-1

Reference No.	Part No.	Description
Q219-Q220,Q223-Q224	4852-40GR-5	TR 2SC2240GR
Q225-Q226	4860-0870-5	TR 2SB631K (E,F)
Q501	485B-772P-5	TR 2SB772P PNP POWER TR
Q502,Q504	4858-0501-5	TR LM8050I HFE 100-250
Q503	4858-5501-5	TR LM8550I HFE 100-250
Q601-Q602	4852-40GR-5	TR 2SC2240GR
Q603-Q604	4860-0650-5	TR 2SA970GR
Q605-Q606	4858-050D-5	TR 8050D
Q607-Q609	4858-0501-5	TR LM8050I HFE 100-250
RESISTORS		
R229-R230 🛆	4715-101J-2-F	RFU 100 OHM 1/4W 5%
R245-R246 🛆	474B-0R1J-5	RCE 0.1 OHM 5W 5%
R265	8910-0031-0	T.S-110 PTH9M04BC471TS2F
R276,R279	4756-1016-3-06	SVR H6 100 OHM RH0615C
R640-R641	635N-0001-0	WJ #23 D=0.6MM
ICS		
M402	3130-7650-0	IC 7810 10V REGULATOR
U403	3130-0980-0	IC HCF 4001BE
U501	3130-2520-2	IC 7812H 12V REGULATOR
U502	3130-3800-0	IC UPC79M12HF -12V REGULATOR
U504	3130-2020-3	IC 7805 5V REGULATOR
U505	3130-2790-1	IC 78M08 8V REGULATOR
U601	3130-3730-1	IC TC9164AN HV ANALOG SW
U602	3130-3560-0	IC NJM072 OP AMP
U603	3130-0890-0	IC NJM4558D DUAL OP AMP
U604	3130-5220-0	IC 4066 QUAD BILATERAL SWITCH
U605-U606	3130-3680-0	IC NJM2043D DUAL OP AMP

NOTE: – The components identified by riangle mark are critical for risk of fire and electrical shock. Replace only with part number specified.

- <*AH > : USA, Canadian model only. <*C > : European model only.

- Capacitors : CM-Mylar, CE-Electrolytic, CC-Ceramic.

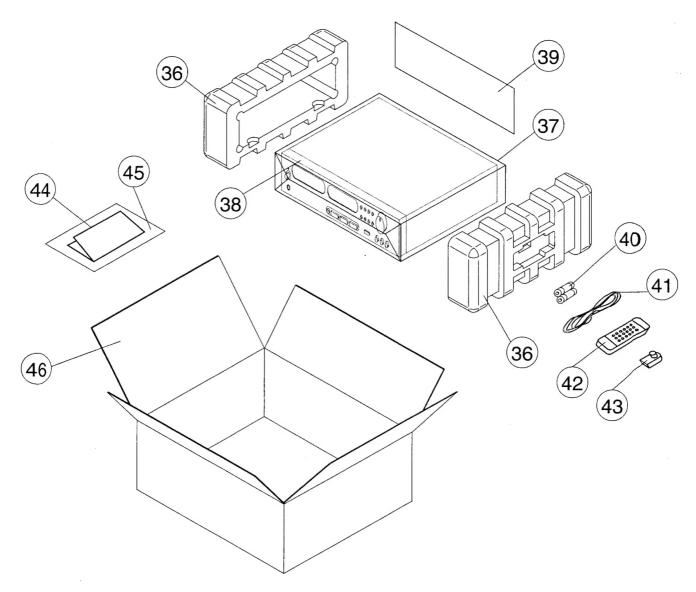
- Resistors : RFU-Fusible, RAS-Anti-Surge, RCE-Ceramic Case.

REVISION HISTORY

Location	Old Part	New Part	Serial No.
1. Keyboard R436	Axial Lead	SMD	After G87L4000959
2. Keyboard R437	/	RCF 100K 5% 1/8W	After G87L4000959
3. Keybaord C408	0.1F	0.47F	After G8XL4003600★
4. FM Tuner Board R781	6.8K	4.7K	After G87L4000959
5. Main Board R430	Metal Glaze	Carbon Film	After G87L4000959
6. Main Board C430	SMD	Conventional	After G87L4000959
7. EL Board D601	1	1/2W 9.9-10.3V	After G87L4000959
8. Speaker Board C232,C233	0.1uF	1000pF	After G87L4000959
9. LED Board D402	Dual Colour	Amber Colour	After G8XL4004495*

Remark: "*" indicates target start serial number.

PACKING DIAGRAM



ITEM	PART NO.	DESCRIPTION	Q'TY
36	1490-1843-1	POLYFOAM ENDCAP	2
37	1497-1332-1	UNIT POLYBAG	1
38	1497-1442-1	FASCIA COVER	1
39	1497-1320-0	ACCESSORIES POLYBAG	1
40	4060-0530-0	BATTERIES	2
41	2107-0661-1	300 OHM T ANTENNA	1
42	8900-1610-0	REMOTE CONTROL HANDSET	1
43	2103-6101-0 *AH	RF CONNECTOR PLUG	1
43	2103-6101-1 *C	RF CONNECTOR PLUG	1
44	4301-3857-0	INSTRUCTION MANUAL	1
45	1497-1062-0	MANUAL POLYBAG	1
46	1477-3101-0	CARTON BOX	1

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